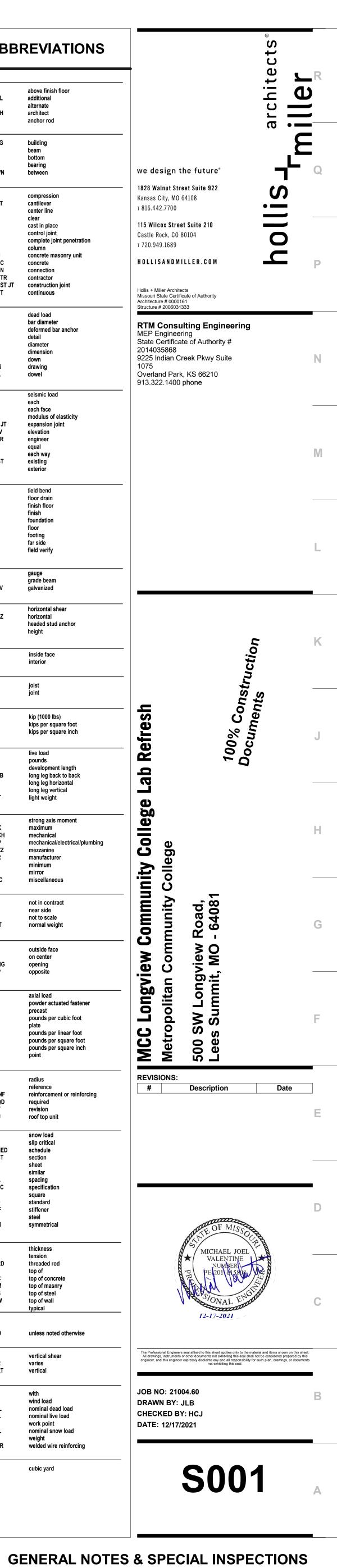
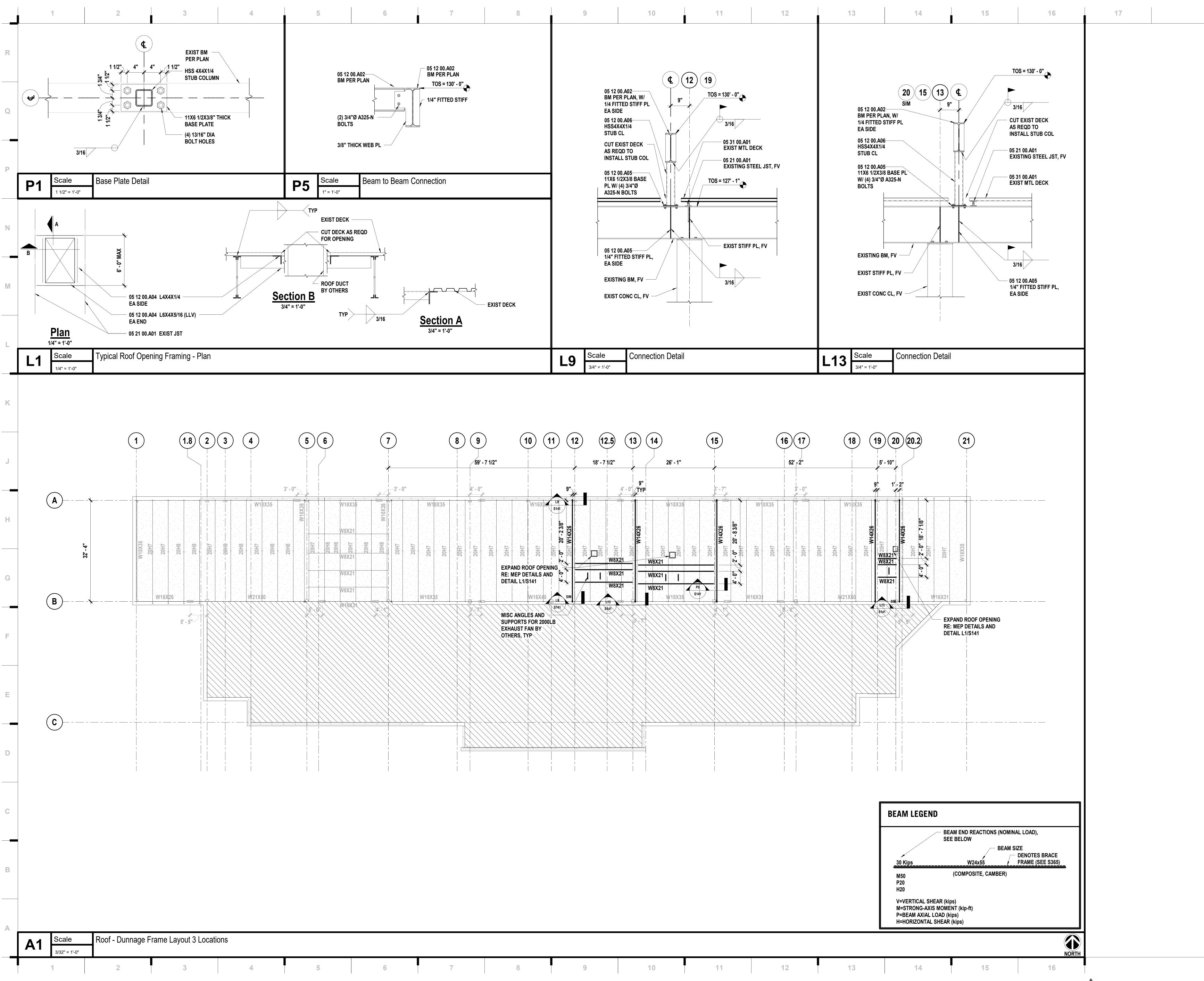
			1	2		3		4		5	5		6			
	A.	Bu	ilding Code							G.	Miscell	aneous	.			
		 The design and construction shall conform to the 2018 International Building Code (IBC) as amended by the City of Lee's 										1. Periodic site obs				
R	B.	Do	Summit, Missouri.								lim	ited site	ng if the work of the c e observation should odic in an effort to g			
	D.	1.	sign Loads This project is desi	igned to resist the most critical loa	ads resultin	g from the basic load	l combinatio	ons outlined in so	ection 1605		enę		shall not be consider			
	-		of the code.	•									ng is not structurally			
		2.		nted equipment weights used for a	•			ents. The Contr	actor shall		for	mainta	ng walls (where appl ining structural stabil work is complete.			
Q		3.	submit actual weights for all roof mounted equipment for review by the Engineer. Wind - The wind load is in accordance with ASCE 7 with the following criteria:								3. The contractor shall					
		-	a. Basic wind sp	peed	V3S:	=117 mph						-	When conflicts occu			
			c. Risk Category		91 m III C	iph					not	t indica	act structural drawing te the method or mea le for all construction			
Р			d. Exposure Cate e. Components &	& Cladding Force	per c	code					The	e engin	eer will not be respon work, or for the failu			
F		4.	a. Importance Fa		IE=1		ne following	criteria:			5. Se	e archi	ectural, mechanical,			
				tral Response Acceleration	 Ss=9 S1=6						rep	oresent	inate as required. Th the building's structu ay not be cut at spec			
			e. Soil Site Class	tral Response Acceleration s c Spectral Response Acceleration	D	=10.5%					dra	wings	are intended to be in civil drawings, and n			
Ν			g. Design 1.0sec h. Seismic Desig	c Spectral Response Acceleration gn Category	Sd1= B	=10.9%					wit	h conte	nts of above sets sp			
	C.	Str	i. Basic Seismic ructural Steel	c Force Resisting System	Stee	l systems not specifi	cally detailed	d for seismic res	sistance				g field and building co of Record regarding a			
		1.		n and erection shall be in accordar							7. Su a.	bmittal Subr	s nittals are to be base			
				construction (AISC) Code of Stand shall be per Allowable Stress Desi		•	and Bridges	s, latest Edition			b.	Subr	lemental Instructions nittals shall be origina			
Μ		2.	Grade a. Steel W and V	WT-shapes ASTM A992 or ASTM	A572, Gr.	50					C.	draw	ncludes, but is not li ng that is not origina to submission of the			
			b. Channels, ang c. Square hollow	gles and plates ASTM A36 v structural shapes ASTM A500,	Grade C (5	50 ksi)					0.	the n	leans, methods, tech d to all shop drawing			
				v structural shapes ASTM A500, naterial ASTM A36	Grade C (4	16 ksi)					d.	revie Desi	w stamp will be retuin In Calculations - All o			
		3.	Connections a. All steel conne	ection design shall be in accordar	nce with the	e requirements of the	AISC Speci	ification for Stru	ctural			1.	ct. Provide the follow Structural Steel conn Cold formed steel fra			
L			Steel Buildings b. Connection de	is and Specification for Structural esign shall be based on reactions	Joints Usin listed on th	g High-Strength Bolt ne drawings and spec	s. cifications. N	Minimum conne	ction		e.	Subr	nittals - Provide the for Structural Steel			
			 b. Connection design shall be based on reactions listed on the drawings and specifications. Minimum connection design shall be 15k shear and 5k axial unless noted otherwise. All gravity and lateral loads noted in the drawings are service level loads. c. All bolted lateral bracing connections (beams, columns, and bracing) shall be designed as slip critical 									2. 3.	Miscellaneous Steel Open Web Steel Jois			
			connections.	rence of the Engineer of record to		0,	C C				f.		Metal Deck titutions are allowed			
			otherwise on t e. Design calcula	the drawings. ations sealed by a professional er	ngineer lice	nsed to practice in th	e jurisdictior	n where the proj		H.	Special	Inspe	ctions (based on 20			
Κ			f. Field welding	be submitted for the architect/engineers in the submitted for the architect/engineers is a submitted by a qualified shall be performed by a qualified shall be performed by a submitted by a	welder and	conform to the lates	t publication						spection reports shal ther pertinent entity i			
		4.	-	he American Welding Society. We not allowed in the field.	elaing electi	rodes shall be E70X	ς.						pancies found by the			
	-	5.	Ũ	all supply all miscellaneous steel a	s required	by the contract docu	ments. Misc	ellaneous steel	shall				If the contractor is upletion of the project			
			include, but is not l architectural eleme	limited to, shelf angle, glass suppo ents.	ort, lintels, o	catwalks and other s	teel required	d for stabilizatior	n of		•		s knowledge, comple			
J		6.		all provide an additional allowance)55000) for steel material, fabricat									r shall retain special d to assist with spec			
				ised portion of the allowance shall								eel (incl Peric	udes structural steel dic			
	D.	Ор	en Web Joist	a shall ha daalaa dahada daa					- 6			1. 2.	Single-pass fillet wel Floor and roof deck a			
ш		1.	 Open web steel joist shall be designed, fabricated and erected in accordance with the latest recommendations of Steel Joist Institute (SJI). Following are the minimum end bearing and weld requirements when an open web steel joist bears on structural steel: a. K-series - 2 ½" bearing with a 1/8"x2" fillet weld each side of the joist seat. 									4.	Headed stud anchors Welding of stairs and High strength bolts			
Н		2.									b.	Cont 1.	nuous Partial and full penet			
				² " bearing with a 1/8"x2" fillet weld ' bearing with a 1/4"x2½" fillet weld		•						2.	All other welding not			
		3.		l joists have been selected based on the uniform dead and live loads noted in section B.2 and B.3 above. All Iditional loads shown on the plans (Mechanical equipment, basketball goals, etc.) shall be added to the uniform live												
G		4		loads shall be included in the app	·			ad haaring OMU								
		4.	a. K-series - 4" b	embed plate with a 1/8"x2" fillet weld each side of the joist seat.												
			 b. LH/DLH-series - 4" bearing on an embed plate located not more than ½" from the face of the wall. Weld the joist to the embed plate with a 1/4"x2½" fillet weld each side of the joist seat. 													
		5.		ers and joist accessories shall be			sf in the corr	ners, 10 psf at tl	ne							
F		6.	edges and 8 psf in the field of the building. Edge zone = 10 feet. All roof bar joists shall be designed for uplift as stipulated by the applicable building code. Extra bracing shall be													
			added as required, and the joist manufacturer shall certify that the joists have been designed for reverse bending due to uplift.													
	-	7.		have horizontal bridging as recom tal bridging where horizontal bridg												
			wall top and bottom	n of joist. The erector shall follow X" bridging required for erection st	the latest r											
Е		8.														
			3. All hangers supporting pipe, equipment, conduit, etc. of more than 200 lbs. supported from steel bar joists or joist girders shall be hung from top chords and within 2" of web panel points. If interferences exist that will not allow pipe to be hung in this manner, the contractor shall notify the engineer for required modifications.													
	E.	Ste	eel Deck													
		1.		punched side lap fastening is not	allowed for	r any roof deck or floo	or deck.									
D	F.	Co	Id Formed Steel	el framing shall be designed, fabr	icated and	erected in accordance	o with the re	ecommendation	s of latest							
		1.		rican Iron and Steel Institute (AISI				ecommendation	5 01 101051							
		2.	All cold formed stee Association (SSMA	eel indicated in these contract doct A) nomenclature.	uments hav	ve been referenced b	y the Steel S	Stud Manufactu	rers							
C		3.	Wall bridging shall	be installed at 4'-0" OC maximum	٦.											
		4.		acks shall match the wall stud thic	kness and	depth.										
		5. c	-	onform to latest AWS D1.3.	e.											
		6. 7.		all screws which are not self-tappir d connections shall be made with	•) of (4) #12 screws o	r the equival	lent weld unless	noted							
В			otherwise.	Il lapped, screwed connections shall be made with a minimum of (4) #12 screws or the equivalent weld unless noted therwise.												
		8.		ctions shall provide for a minimum the plies of metal being connecte			ng. All scre	ws shall be com	pletely							
	-	9.	All floor and roof fra	aming shall align with the wall stu	d below.											
		10.	Joist blocking shall	I be spaced at 8'-0" OC maximum												
Α				of sheathing and wall studs is not		otis⊎										
		12. 13.	Ū	ers shall be cut square such that the transmitted of the second			connections.									
											_					
ľ			1	2		3		4	Ţ	5	5		6			

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eld representatives of Hollis and Miller Architects, if prov contractor is proceeding in general accordance with the												ABBF	REVIATIONS
I not be construed as exhaustive or continuous to check juard the owner against defects or deficiencies in the wo red inspections, and in no way relieves the contractor of	k the quality or quantit or he duantit or he contractor.	y of the work, but Observations by t	he									A AFF ADDL ALT ARCH AR	above finish floor additional alternate architect anchor rod
stable until all connections, framing, shearwalls, perma licable) are complete and have achieved their design st ility during erection and construction. Temporary bracir	trength. Contractor is	solely responsible)									B BLDG BM BOT BRG BTWN	building beam bottom bearing between
or modify work shown on the structural drawings withou ur between the drawings and specifications, the strictes	t receiving written app st interpretation shall g	roval from the overn.										C C CANT	compression cantilever
gs and specifications represent the finished structure, a cans of construction. The contractor shall supervise and n means, methods, procedures, techniques, sequence, onsible for the acts or omission of the contractor, subcor- ure of any of them to carry out the work in accordance w	d direct the work and s and safety precautior ntractor, or any other	shall be solely s and programs. persons performin										CL CLR CIP CJ CJP COL CMU CONC CONN	center line clear cast in place control joint complete joint penetration column concrete masonry unit concrete connection
, electrical, and plumbing drawings for other pertinent in hese structural drawings are intended to be utilized as ural systems. No single sheet or series of sheets is inte- cific locations throughout the drawings, but are to be ap included in a complete set of construction documents, in mechanical/electrical/plumbing drawings. Contractor sh	a complete set of doc ended to "stand alone plied where required. cluding but not limited nall verify coordination	uments that '. Typical details These structural to, architectural of these drawings										CONTR CONST JT CONT D db DBA DLT	contractor construction joint continuous dead load bar diameter deformed bar anchor detail
becified and only proceed with bidding and construction conditions shall be verified by the Contractor before any any discrepancy with existing building dimensions.			1									dia dim dn dwg dwl E	diameter dimension down drawing dowel
ed upon the latest submitted contract documents. This s (ASIs), Structural Supplemental Drawings (SSD's), ar al documents. Shop drawings shall not be a duplication imited to, photocopies, electronic drawing copying or ele al will be rejected and returned without review. e submittals to the Architect, the Contractor shall review	nd Requests for Inforr n, in any way,of the co ectronic scanning. Ar	nation (RFI's). ontract documents ny submitted shop										E EA EF EM EXP JT ELEV ENGR EQ EW	seismic load each each face modulus of elasticity expansion joint elevation engineer equal each way
hniques, sequences and operations of construction. The gs prior to Architect or Structural Engineer review. Sho irned without review. calculations shall be signed and sealed by a profession wing design calculations for review: nections	ne Contractor's review p drawings not bearin	stamp shall be g the Contractor's										EXIST EXT FB FD FF FIN FND	existing exterior field bend floor drain finish floor finish foundation
aming - exterior wall and load bearing following submittals for review: including lintels, stairs, etc.												flr ftg fs fv G	floor footing far side field verify
st prior to bid only. Reference the specifications for timin	ng of submission											ga gb galv H	gauge grade beam galvanized
018 IBC, Chapter 1704) Ill be submitted to the Building Official, Owner, Architec in a timely manner.	t, Engineer, Contracto	r, Sub-Contractor										H HORZ HSA HT I	horizontal shear horizontal headed stud anchor height
e special inspector shall immediately be brought to the a unable to correct the discrepancy, the special inspector	attention of the genera r shall notify the Archi	l contractor and tect and Engineer.										IF INT J	inside face interior joist
t, the special inspector shall submit a final report deline eted in conformance with the approved contract docume			he									јт <u>К</u>	joint kip (1000 lbs)
I inspection services for the items listed below. The Co cial inspections.	ontractor shall provide	light general labor										ksf ksi L	kips per square foot kips per square inch
l, joist, deck and anchor rod placement) lds not exceeding 5/16 inch in size.												L LBS Id LLBB LLH LLV	live load pounds development length long leg back to back long leg horizontal long leg vertical
attachment s d railing systems												lwt <u>M</u> Max	light weight strong axis moment maximum
tration welds. covered in periodic inspections.												MECH MEP MEZZ MFR	mechanical mechanical/electrical/plumbing mezzanine manufacturer
												min Mir Misc N	minimum mirror miscellaneous not in contract
												NS NTS NWT OF	near side not to scale normal weight outside face
												OC OPNG OPP P	on center opening opposite axial load
												PAF PC PCF PL PLF	powder actuated fastener precast pounds per cubic foot plate pounds per linear foot
												PSF PSI PT R	pounds per square foot pounds per square inch point
												RE REINF REQD REV RTU S	radius reference reinforcement or reinforcing required revision roof top unit
												S SC SCHED SECT	snow load slip critical schedule section
												SHT SIM SPA SPEC SQ STD STIF	sheet similar spacing specification square standard stiffener
												STL SYM T	steel symmetrical thickness
												T THRD TO TOC TOM TOS TOW	tension threaded rod top of top of concrete top of masnry top of steel
												TYP U UNO	top of wall typical unless noted otherwise
												V V VAR VERT	vertical shear varies vertical
												W W/ WDL	with wind load nominal dead load
												WLL WP WSL WT WWR	nominal live load work point nominal snow load weight welded wire reinforcing
												Y YD	cubic yard
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